

CLAIMS

1. A lubricating/detaching/fluidifying additive composition for organic polymers, comprising a saturated hydrocarbon having from 25 to 35 carbon atoms with at least three side substituents consisting of a methyl group, combined with at least one polysiloxane polymer having a molecular weight higher than 500,000.
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2. The use of a lubricating/detaching/fluidifying additive composition for organic polymers, comprising a saturated hydrocarbon having from 25 to 35 carbon atoms with at least three side substituents consisting of a methyl group, optionally combined with at least one polysiloxane polymer having a molecular weight higher than 500,000.
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3. A polymeric composition containing an organic polymer and a lubricating/detaching/fluidifying additive composition for organic polymers, comprising a saturated hydrocarbon having from 25 to 35 carbon atoms with at least three side substituents consisting of a methyl group, optionally combined with at least one polysiloxane polymer having a molecular weight higher than 500,000.
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4. The additive composition according to claim 1,
characterized in that the hydrocarbon is selected
from 2,6,10,15,19,23-hexamethyltetracosane and its
isomers having hexamethyltetracosane as basic
5 structure.
5. The additive composition according to claim 1,
characterized in that the hydrocarbon is 2,6,10,15,
19,23-hexamethyltetracosane.
6. The additive composition according to claim 1,
10 characterized in that the additive product or
composition is present in a quantity ranging from
0.01% to 80% by weight with respect to the total
weight of the organic polymer containing said
additive.
- 15 7. The additive composition according to claim 1,
characterized in that the hydrocarbon is present in
a quantity ranging from 0.01% to 50% by weight with
respect to the total weight of the organic polymer
containing said additive and the polysiloxane
20 polymer is present in a quantity ranging from 0.05%
to 30% by weight with respect to the weight of the
polymer containing the additive.
8. The additive composition according to claim 1,
characterized in that the hydrocarbon and
25 polysiloxane polymer are present in any ratio.

9. The additive composition according to claim 1, characterized in that the additive product or composition is present in a quantity ranging from 0.01% to 10% by weight with respect to the total weight of the organic polymer containing said additive when the polymer is a thermoplastic.
10. The additive composition according to claim 1, characterized in that it is formulated in any physical form, either in solution or supported on absorbing products or polymeric matrixes.
11. The additive composition according to claim 1, characterized in that it is formulated with additional additives, modifiers, fillers, loadings for organic polymers.
12. The composition containing additives according to claim 3, characterized in that the hydrocarbon is selected from 2,6,10,15,19,23-hexamethyltetracosane and its isomers having hexamethyltetracosane as basic structure.
13. The composition containing the additive according to claim 3, characterized in that the hydrocarbon is 2,6,10,15,19,23-hexamethyltetracosane.
14. The composition containing the additive according to claim 3, characterized in that the additive product or composition is present in a quantity ranging from

0.01% to 80% by weight with respect to the total weight of the organic polymer containing said additive.

15. The composition containing the additive according to claim 3, characterized in that the hydrocarbon is present in a quantity ranging from 0.01% to 50% by weight with respect to the total weight of the organic polymer containing said additive and the polysiloxane polymer is present in a quantity ranging from 0.05% to 30% by weight with respect to the weight of the polymer containing the additive.
16. The composition containing the additive according to claim 3, characterized in that the hydrocarbon and polysiloxane polymer are present in any ratio.
17. The composition containing the additive according to claim 3, characterized in that the additive product or composition is present in a quantity ranging from 0.01% to 10% by weight with respect to the total weight of the organic polymer containing said additive, when the polymer is a thermoplastic.
18. The composition containing the additive according to claim 3, characterized in that the organic polymers are thermoplastic resins, thermoplastic elastomers, thermosetting resins.
19. The composition containing the additive according to

claim 18, characterized in that the organic polymers are copolyesters (PET, PBT, PEN) and their copolymers, polyesters, polycarbonates, polyurethanes, polyacetals, polyamides, 5 copolyamides, polyphenyleneoxides, polyimides, polyamide-imides, polysulfones, polyketones, high-strength polyamide compositions, transparent ABS, styrene resins, methacrylates, polyetherimides.

20. The composition containing the additive according to 10 claim 19, characterized in that the organic polymers are polycarbonates, polyesters, polyamides, copolyamides, high-strength polyamide compositions, transparent ABS, styrene copolymers, methacrylates.

21. The composition containing the additive according to 15 claim 3, characterized in that the polymers can be as such, or mixed with each other, copolymerized, formulated with other polymers, formulated and/or modified with one or more additional substances.

22. The composition containing the additive according to 20 claim 3, characterized in that said additional substances are pigments, filling or reinforcing products, such as natural fibers, glass fibers, carbon fibers, aramidic fibers, flame-retardant substances, shock-resistance agents such as SBR, 25 SBS, EPS, EPR, SEBS, EMP, EPDM, anti-UV substances

and antioxidants, waxes, esters and oils.

23. The composition containing the additive according to claim 3, characterized in that the additive composition consists of 2,6,10,15,19,23-hexamethyltetracosane and the organic polymer is selected from polycarbonates, polyesters, copolyamides, transparent ABS, styrene copolymers, methacrylates.
24. The use of the additive composition according to any of claims 1, 4-11, in formulations in the form of paste, liquid, supported on absorbing products or matrix resins (Master-Batches), etc.
25. The use according to claim 2, characterized in that the hydrocarbon is selected from 2,6,10,15,19,23-hexamethyltetracosane and its isomers having hexamethyltetracosane as basic structure.
26. The use according to claim 25, characterized in that the hydrocarbon is 2,6,10,15,19,23-hexamethyltetracosane.
27. The use according to claim 26, characterized in that the organic polymers are polycarbonates, polyesters, copolyamides, transparent ABS, styrene copolymers, methacrylates.
28. A process for the preparation of the polymeric composition containing additives according to any of

claims 3, 12-23, characterized in that the additive composition is added separately to the organic polymer which is then subjected to classical processing such as extrusion, for example.

- 5 29. The polymer obtained by means of the process according to claim 28.